AAC Design-INV 14000 A - PTC

D	GEBRAUCHSANWEISUNG	2
DK	BRUGSANVISNING	22
E	INSTRUCCIONES DE USO	42
F	MANUEL D'UTILISATION	62
FIN	KÄYTTÖOHJE	82
GB	OPERATING MANUAL	102

CONTENTS

A. Safety instructions

B. Parts identification

C. Operation with remote control

D. Special function

E. Manual operation.

F. Adjusting air flow direction.

G. Operation tips

H. How the air conditioner works

I. Operation tips

J. Cleaning and maintenance

K. Troubleshooting tips

L. Guarantee conditions

M. Technical data

READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventative care on your part can save you a great deal of time and money over the life of your air conditioner. You'll find many answers to common problems in the chart of troubleshooting tips. If you review the chart of Troubleshooting Tips first, you may not need to call for service.

CAUTION

- Contact an authorised service technician for repair or maintenance of this unit. The installation must be performed in accordance with national standards and legislation.

IMPORTANT NOTES

- Do not operate unit with horizontal louver in closed position.
- Do not operate unit without the air filter.

A SAFETY INSTRUCTIONS

Install the device only when it complies with local regulations, by-laws and standards. The unit is only suitable for use in dry locations, indoors. Check the mains voltage and frequency. This unit is only suitable for earthed sockets, connection voltage 220 - 240 V. / 50 Hz.

IMPORTANT

- The device MUST always have an earthed connection. If the power supply is not earthed, you may not connect the unit. The plug must always be easily accessible when the unit is connected. Read these instructions carefully and follow the instructions.
- The airconditioner contains a refrigerant and can be classified as pressurized equipment. Therefore always contact an authorized installation specialist for installation and maintenance of the airconditioner. It is to be advised that the airconditioner is inspected and serviced on an annual base by an authorized airconditioning engineer.

Before connecting the unit, check the following:

- The voltage supply must correspond with the mains voltage stated on the rating label.
- The socket and power supply must be suitable for the current stated on the rating label.
- The plug on the cable of the device must fit into the wall socket.
- The device must be placed and mounted on a stable surface.

The electricity supply to the device must be checked by a recognised professional if you have any doubts regarding the compatibility.

- This device is manufactured according to CE safety standards. Nevertheless, you must take care, as with any other electrical device.
- Do not cover the air inlet and outlet grill.
- Never allow the device to come into contact with chemicals.
- Never spray the unit with or submerge in water
- Do not insert hands, fingers or objects into the openings of the unit.
- Never use an extension cable to connect the device to the electric power supply. If there is no suitable, earthed wall socket available, have one installed by a recognised electrician.
- For safety reasons take care when children are in the surrounding of the device, as with any other electrical device.
- Have any repairs and/or maintenance only carried out by a recognised service engineer or your recognised Appliance supplier. Follow the instructions for use and maintenance as indicated in the user manual of this device.
- Always remove the plug of the unit from the wall socket when it is not in use.
- A damaged power cord or plug must always be replaced by a recognised electrician or your supplier.
- Do not operate or stop the airconditioner by inserting or pulling out the power plug. Only use the dedicated buttons on the airconditioner or on the remote control.
- Do not open the airconditioner when it is in operation. Always pull out the electrical plug when opening the device.
- Always pull out the electrical plug when cleaning or servicing the airconditioner.
- Do not place gas burners, ovens and/or stoves in the airstream.
- Do not operate the buttons or touch the airconditioner with wet hands.
- Note that the outdoor unit produces sound when in use, this could interfere with local legislation, it is the responsibility of the user to check and to make sure the equipment is in full compliance with local legislation.

- It is advised to stay out of the direct airstream.
- Never drink the drain water from the airconditioner.

ATTENTION!

- Never use the device with a damaged power cord, plug, cabinet or control panel.
- Failing to follow the instructions may lead to nullification of the guarantee on this device.

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage. The seriousness is classified by the following indications.

⚠ **CAUTION** This symbol indicates the possibility of death or serious injury.
⚠ **WARNING** This symbol indicates the possibility of injury or damage to property.

* Meanings of symbols used in this manual are as shown below.

⃠ **CAUTION** Never do this.
❗ **WARNING** Always do this.

❗ Plug in power plug properly.	⃠ Do not operate or stop the unit by inserting or pulling out the power plug.	⃠ Do not damage or use an unspecified power cord.
• Otherwise, it may cause electric shock or fire due to excess heat generation.	• It may cause electric shock or fire due to heat generation.	• It may cause an explosion or fire. • If the power cord is damaged, it must be replaced by the manufacturer or an authorised service center or a similarly qualified person in order to avoid a hazard.
⃠ Do not modify power cord length or share the outlet with other appliances.	⃠ Do not operate with wet hands or in damp environment.	❗ Always install circuit breake and a dedicated power circuit.
• It may cause electric shock or fire due to heat generation.	• It may cause fire and electric shock.	• No installation may cause fire and electric shock.
❗ Always ensure effective earthing.	⃠ Do not allow water to run into electric parts.	⃠ Do not open the unit during operation.
• No earthing may cause electric shock.	• It may cause failure of machine or electric shock.	• It may cause failure of machine or electric shock.
❗ Unplug the unit if strange sounds, smell or smoke comes from it.	⃠ Do not use the socket if it is loose or damaged.	⃠ Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.
• It may cause electric shock.	• It may cause fire and electric shock.	• It may cause explosion, fire and, burns.
❗ Ventilate room before operating air conditioner if there is a gas leakage from another appliance.	⃠ Do not use the power cord close to heating appliances.	⃠ Do not disassemble or modify unit.
• It may cause explosion, fire and, burns.	• It may cause fire and electric shock.	• It may cause failure and electric shock.

When the air filter is to be removed, do not touch the metal parts of the unit.	Do not operate or stop the unit by inserting or pulling out the power plug.	Ventilate the room well when used together with a stove, etc.
• It may cause an injury.	• It may cause electric shock or fire due to heat generation.	• An oxygen shortage may occur.
When the unit is to be cleaned, switch off, and turn off the circuit breaker.	Do not clean the air conditioner with water.	Do not use this air conditioner to preserve precision devices, food, pets, plants, and art objects.
• Do not clean unit when power is on as it may cause fire and electric shock, it may cause an injury.	• Water may enter the unit and degrade the insulation. It may cause an electric shock.	• It may cause deterioration of quality, etc.
Stop operation and close the window in storm or hurricane .	Do not put a pet or house plant where it will be exposed to direct air flow.	Turn off the main power switch when not using the unit for a long time.
• Operation with windows opened may cause wetting of indoor and soaking of household furniture.	• This could injure the pet or plant.	• It may cause failure of product or fire.
Hold the plug by the head of the power plug when taking it out.	Do not place obstacles around air inlets or inside of air-outlet.	Ensure that the installation bracket of the outdoor appliance is not damaged due to prolonged exposure.
• Failure to do so may cause electric shock and damage.	• It may cause failure of appliance or accident.	• If bracket is damaged, there is concern of damage due to falling of unit.
Always insert the filters securely. Clean filter once every two weeks.	Do not use strong detergent such as wax or thinner. Use a soft cloth forcleaning.	Do not drink water drained from air conditioner.
• Operation without filters may cause failure.	• Appearance may be deteriorated due to change of product colour or scratching of its surface. • There is danger of fire or electric shock.	• It contains contaminants and could make you sick.
Use caution when unpacking and installing. Sharp edges could cause injury.	If water enters the unit, turn the unit off at the power outlet and switch off the circuit breaker. Isolate supply by taking the powerplug out and contact a qualified service technician.	

SAFETY PRECAUTIONS • PRIOR TO OPERATION

Preparing for operation

1. Plug in the power plug properly.
2. Do not use a damaged or non-standard power cord.
3. Do not share the same outlet with other appliances.
4. Do not use an extension cord.
5. Do not start/stop operation by plugging/unplugging the power cord.

Usage

1. Exposure to direct airflow for an extended period of time could be hazardous to your health. Do not expose occupants, pets, or plants to direct airflow for extended periods of time.
2. Ventilate the room well when used together with a stove or other sources of combustion to avoid the risk of oxygen shortage.
3. Do not use this air conditioner for non-specified special purposes (e.g. Preserving precision devices, food, pets, plants, and art objects). Usage in such a manner could harm such property.

Cleaning and maintenance

1. Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
2. Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.

3. When cleaning the unit, first make sure that the power and circuit breaker are turned off.

Service

For repair and maintenance, contact your authorised service dealer.

Operating Temperature

COOLING MODE			
INDOOR		OUTDOOR	
MAX.	MIN.	MAX.	MIN.
32°C	17°C	43°C	11°C

HEATING MODE			
INDOOR		OUTDOOR	
MAX.	MIN.	MAX.	MIN.
27°C	10°C	24°C	-15°C

NOTE:
- Optimum performance will be achieved within these operating temperatures.

B PARTS IDENTIFICATION

INDOOR UNIT

OUTDOOR UNIT

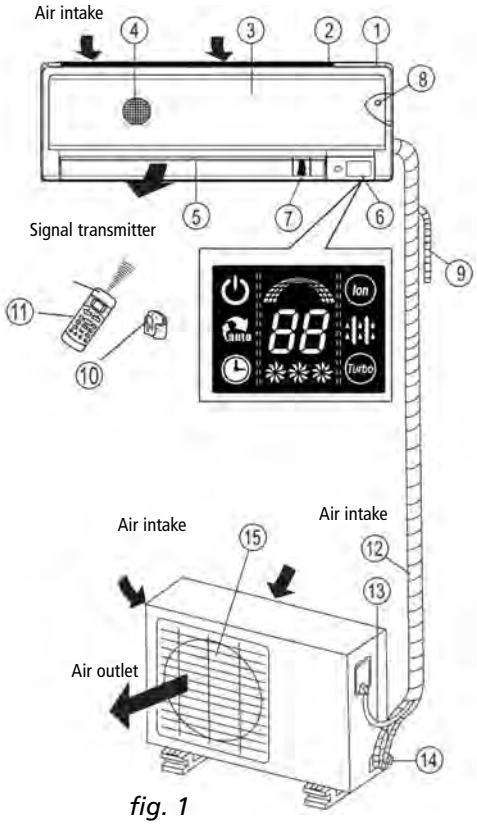


fig. 1

INDOOR UNIT

① Front panel frame
② Rear air intake grille
③ Front panel
④ Air Purifying filter & Air filter
⑤ Horizontal airflow grille
⑥ LCD display window
⑦ Vertical airflow grille (manual)
⑧ Manual control switch/auto-cool
⑨ Drain pipe
⑩ Remote controller holder
⑪ Remote controller

OUTDOOR UNIT

⑫ Connecting pipe
⑬ Connective cable
⑭ Stop valve
⑮ Fan hood

NOTE:
- All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased. The actual shape shall prevail.

LCD DISPLAY WINDOW

fig. 2

OPERATION indication lamp
This lamp illuminates when the air conditioner is in operation.

AUTO CLEAN indication lamp (optional)
Lights up during the Auto operation.

TIMER indication lamp
Lights up during Timer operation.

CLEAN AIR indication lamp
Lights up when CLEAN AIR feature is activated and Ionizer can generate abundant anions to fill the room with refreshing and natural air.

TURBO indication lamp (only 14000 A-PCT)
Lights up when select TURBO function on cooling operation or on heating operation.

DEFROST indication lamp
(For reverse cycle model only): Lights up when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.

DIGITAL DISPLAY indication lamp (only 14000 A-PCT)
Displays the current setting temperature when the air conditioner is in operation. When AUTO CLEAN feature is activated, it displays.

FAN SPEED indication lamp
Displays the selected fan speed: AUTO(nothing) and three fan speed levels: LOW, MED and HIGH

This display is separated into three zones. Once the indoor fan is on, the zones illuminate gradually.

C OPERATION WITH REMOTE CONTROL

NOTE!

- Always aim the remote controller towards the receiver on the indoor unit and make sure there are no obstacles in between the remote control and the receiver on the indoor unit. Otherwise the remote control signal will not be picked up by the receiver and the air conditioner will not work properly.
- The maximum distance at which the remote control will work is approximately 6 to 7 meters.

Introduction of Function Buttons on the Remote Controller

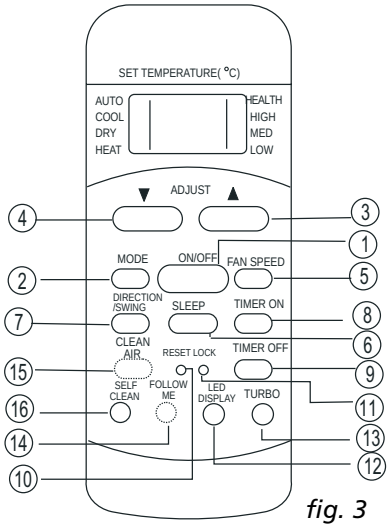
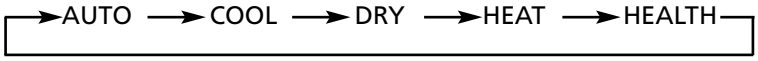


fig. 3

① **On/off Button:** Push this button to start the unit operation. Push the button again to stop the unit operation.

② **Mode Button:** Each time you press the button, a mode is selected in a sequence that goes from AUTO COOL DRY HEAT and HEALTH as the following figure indicates:



③ **▲ Button:** Push the button to increase the indoor temperature setting to 30°C.

④ **▼ Button:** Push the button to decrease the indoor temperature setting to 17°C.

⑤ **Fan Speed Button:** This button is used for selecting Fan Speed. Each time you press the button, a fan speed is selected in a sequence that goes from AUTO, LOW, MED to HIGH, then back to AUTO. When you select the AUTO or DRY mode, the fan speed will be automatically controlled and you can not set the fan speed.

⑥ **SLEEP Button:** Press this button to go into the Energy-Saving operation mode. Press it again to cancel. This function can only be used on COOL, HEAT and AUTO mode and maintain the most comfortable temperature for you.

NOTE: While the unit is running under SLEEP operation mode, it would be cancelled if you press the other button.

⑦ **Swing Button:** Press the SWING button to activate the swing feature. Push the button again to stop. Press this button to change the swing angle of the louver. The swing angle of the louver is 6° for each press. When the louver swing at a certain angle which would affect the cooling and heating effect of the air conditioner, it would automatically change the swing direction. No symbol will appear in the display area when this button is pressed.

⑧ **Timer on Button:** Press this button to initiate the auto-on time sequence. Each press will increase the auto-timed setting in 30 minutes increments. When the setting time displays 10Hr, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, continue pressing the button until time setting is 0.0.

⑨ **Timer off Button:** Press this button to initiate the auto-off time sequence. Each press will increase the auto-timed setting in 30 minutes increments. When the setting time displays 10Hr, each press will increase the auto-timed setting 60 minutes increments. To cancel the auto-timed program, continue pressing the button until time setting is 0.0.

⑩ **RESET Button:** When you press the recessed RESET button, all current settings are cancelled and the control will return to the initial settings.

⑪ **LOCK Button:** When you press the recessed LOCK button, all current settings are locked in and the remote controller does not accept any operation except that of the LOCK. Press again to cancel the LOCK mode.

⑫ **LED DISPLAY Button:** Press this button to clear the digit display in the air conditioner, press it again to activate it, max. 30 minutes. (Not applicable to units without this function).

⑬ **TURBO Button:** Push this button on COOL mode, the air conditioner goes into powerful cooling operation. Push again to cancel the TURBO function. (Not applicable to units without this function)

⑭ **Follow Me function:** The remote control serves as a remote thermostat allowing you to precisely adjust the temperature at the location of the remote control near you. To activate the Follow Me feature, point the remote control towards the unit and press the Follow Me button. The display on the remote control shows the actual temperature at its location. The remote control will send this information to the air conditioner every 3 minutes, until the Follow Me button is pressed again. If the unit does not receive the Follow Me signal for 7 minutes, the unit will beep to indicate that the Follow Me mode has ended.

⑮ **CLEAN AIR function:** Air quality is the key to comfort, this air conditioner is equipped with Ionizer device. Ionizer can generate abundant anions to fill the room with refreshing and nature air. Your whole family will enjoy a natural, pure and healthy air everyday.

⑯ **Auto Clean function (optional):** Function used after the Shut Down of cooling operation to clean the Evaporator and keep it as fresh for the next operation. This function is only available under COOL(AUTO COOL, FORCED COOL) and DRY mode. Once the Auto Clean function is activated, all TIMER setting will be cancelled. During Auto Cleaning operation, Press the AUTO CLEAN button again will stop the operation and turn off the unit.

Names and Functions of indicators on Remote Controller

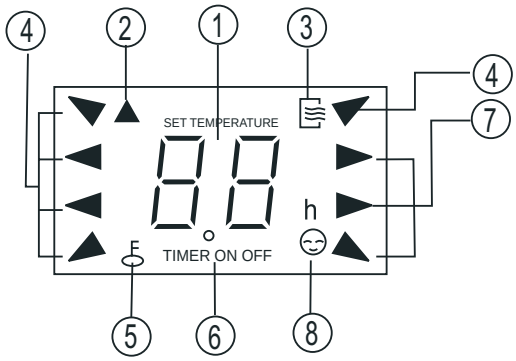


fig. 4

Display Panel

① **DIGITAL DISPLAY area:** This area will show the set temperature and, if in the TIMER mode, will show the ON and OFF settings of the TIMER. If in the HEALTH mode, nothing is appeared.

② **TRANSMISSION Indicator:** This indicator lights when remote controller transmits signals to the indoor unit.

③ **ON/OFF Indicator:** This symbol appears when the unit is turned on by the remote controller, and disappear when the unit is turned off.

④ **OPERATION MODE Indicator:** When press the MODE button, it shows the current operating mode -- AUTO COOL DRY HEAT (Cooling only model without) HEALTH mode.

⑤ **LOCK Indicator:** LOCK display is displayed by pushing the LOCK button. Push the LOCK button to clear display.

⑥ **TIMER DISPLAY Indicator:** This display area shows the settings of the TIMER. That is, if only the starting time of operation is set, it will display the TIMER ON. If only the turning off time of operation is set, it will display the TIMER OFF. If both operations are set, it will show TIMER ON-OFF which indicates you have chosen to set both the starting time and off time.

⑦ **FAN SPEED Indicator:** Press the FAN SPEED button to select the desired fan speed setting (Auto-Low-Med-High). Your selection will be displayed in the LCD window except the Auto fan speed.

⑧ **FOLLOW ME Indicator:** This symbol appears when the FOLLOW ME button is pressed

NOTE!
All signs shown in the Fig.4 is for the purpose of clear presentation. But during the actual operation only the relative functional signs are shown on the display panel.

Operating the Remote Controller

Install / Replace Batteries

Use two dry alkaline batteries (AAA/LR03).
Do not use rechargeable batteries.

1. Remove the battery cover on the back of the Remote Control by pulling it according to the arrow direction shown on the cover.
2. Insert new batteries making sure that the (+) and (-) of battery are installed correctly.
3. Reattach the cover by sliding it back into position.

NOTE!

- When replacing batteries, do not use old batteries or a different type battery. This may cause the remote controller to malfunction.
- If you do not use the remote controller for several weeks remove the batteries. Otherwise battery leakage may damage the remote controller.
- The average battery life under normal use is about 6 months.
- Replace the batteries when there is no answering beep from the indoor unit or if the Transmission Indicator light fails to appear.
- Never mix new and old batteries. Never use different battery types (e.g. alkaline and manganese dioxide) simultaneously.

AUTOMATIC Operation

When the Air Conditioner is ready for use, switch on the power and the OPERATION indicator lamp on the display panel of the indoor unit starts flashing.

1. Use the **Mode** select button to select AUTO.

2. Push the ▲ or ▼ button to set the desired room temperature. The most comfortable temperature settings are between 21°C to 28°C.
3. Push the **On/off** button to start the air conditioner. The OPERATION lamp on the display panel of the indoor unit lights. The operating mode is AUTO. The FAN SPEED is automatically controlled.
4. Push the **On/off** button again to stop the unit operation.

NOTE!
- In the AUTO mode, the air conditioner can logically choose the mode COOL, FAN, HEAT and DRY by sensing the difference between the actual ambient room temperature and the set temperature on the remote controller.
- If the AUTO mode is not comfortable for you , the desired mode can be selected manually.

COOL, HEAT, and HEALTH (Fan only) Operation

1. If the AUTO mode is not comfortable, you may manually override the settings by using COOL, DRY, HEAT (HEAT PUMP units only) or HEALTH modes by pressing button ②.
2. Push the ▲ or ▼ button (③ and ④) to set the desired room temperature. When in COOLING mode, the most comfortable settings are 21°C or above. When in HEATING mode, the most comfortable settings are 28°C or below.
3. Push the **Fan Speed** button ⑤ to select the FAN mode of AUTO, HIGH, MED or LOW.
4. Push the **On/off** button ①. The operation lamp lights and the air conditioner starts to operate per your settings. Push the **On/off** button ① again to stop this unit operation.

NOTE!
The HEALTH mode cannot be used to control the temperature. In this mode, only steps 1, 3 and 4 are applicable.

DRY Operation

1. Push the **Mode** button ② to select DRY.
2. Push the ▲ or ▼ button (③ and ④) to set the desired temperature from 21°C to 28°C.
3. Push the **On/off** button ①. The operation lamp lights and the air conditioner starts to operate in the DRY mode. Push the **On/off** button ① again to stop this unit operation.

NOTE!
Due to the difference of the set temperature of the unit and the actual indoor temperature, the Air Conditioner when in DRY mode will automatically operate many times without running the COOL and FAN mode.

TIMER Operation

Push Timer on/off button (⑨ and ⑩) to set the on and off times of the unit. The effective operation time set by the remote controller for the timer function is limited to a period of between 0.5 and less than 24 hours.

1. To set the STARTING time.

1.1 Push the **Timer on** button ⑨, then the remote controller display shows **ON TIMER**, the last set time for the starting operation and the signal "**Hr**" will be shown on the digital display area. You are now ready to reset the time to START the operation.

1.2 Push the **Timer on** button ⑨ again to set desired unit start time.

1.3 After setting the **Timer on** ,there will be half a second delay before the remote controller transmits the signal to the air conditioner. Then, after approximately another 2 seconds, the signal "h" disappears and the set temperature will re-appear on the digital display.

2. To set the STOPPING time.

2.1 Push the **Timer off** button ⑩ and the remote controller display will show **OFF TIMER** and the last set time for the timer off operation in hours will be shown on the Timer display area. You are now ready to reset the time of the STOP operation.

2.2 Push the **Timer off** button ⑩ again to set the time you want to stop the operation.

2.3 After setting the **Timer off**, there will be half a second delay before the remote controller transmits the signal to the air conditioner. Then, after approximately another 2 seconds, the signal "h" disappears and the set temperature will re-appear on the digital display.

3. Set the starting & stopping time

3.1 Push the **Timer on** button ⑨, the remote controller display will show **ON TIMER**, the last set time for **Timer on** operation in hours will be shown on the Timer display area. You are now ready to readjust the **Timer on** to start the operation.

3.2 Push the **Timer on** button ⑨ again to set the time you want to start the operation.

3.3 Push the **Timer off** button ⑩, the remote controller will show **OFF TIMER**, the last set time for STOP operation and the signal "Hr" will be shown on the Timer display area. You are now ready to set the time to STOP operation.

3.4 Push the **Timer off** button ⑩ again to set the time you want to stop the operation.

3.5 After setting the TIMER, there will be half a second delay before the remote controller transmits the signal to the Air Conditioner. Then, after approximately another 2 seconds, the signal "h" disappears and the set temperature will re-appear on the digital display.

NOTE!

- If the same time is set for both START and STOPPING settings, the stopping time will automatically increase 0.5hr (the set time displays less than 10Hr) or one hour (the set time displays 10Hr or more).
- To change the Timer on/off time, just press the corresponding TIMER button and reset the time.
- The setting time is relative time. That is the time set is based on the delay of the current time.

WARNING

- Keep the Remote Controller away from all liquids.
- Protect the Remote Controller from high temperatures and exposure to radiation.
- Keep the indoor receiver out of direct sunlight or the Air Conditioner may malfunction.
- Never mix new and old batteries. Never use different battery types (e.g. alkaline and manganese dioxide) simultaneously.

D SPECIAL FUNCTION

Follow Me function

The remote control serves as a remote thermostat allowing you to precisely adjust the temperature at the location of the remote control near you.

To activate the Follow Me feature, point the remote control towards the unit and press the Follow Me button. The display on the remote control shows the actual temperature at its location. The remote control will send this information to the air conditioner every 3 minutes, until the Follow Me button is pressed again. If the unit does not receive the Follow Me signal for 7 minutes, the unit will beep to indicate that the Follow Me mode has ended.

CLEAN AIR function

Air quality is the key to comfort, this air conditioner is equipped with Ionizer device. Ionizer can generate abundant anions to fill the room with refreshing and nature air. Your whole family will enjoy a natural, pure and healthy air everyday.

Auto Clean function(optional)

Function used after the Shut Down of cooling operation to clean the Evaporator and keep it as fresh for the next operation. This function is only available under COOL(AUTO COOL, FORCED COOL) and DRY mode. Once the Auto Clean function is activated, all TIMER setting will be cancelled. During Auto Cleaning operation, Press the AUTO CLEAN button again will stop the operation and turn off the unit.

Dry & Antibacterial function

When turning off the unit on COOL, DRY, AUTO (Cool) mode, the air conditioner will continue operating for 10 minutes at LOW fan speed. This will help to dry up the water (sweating) inside the evaporator, and prevent bacterial from multiplying, supply clean and fresh air. This function is a factory default setting. If you want to cancel it, use the remote controller to select the FAN mode, press the ON/OFF button to turn on the unit, press the ON/OFF button again to turn off the unit after 5 seconds.

NOTE!
Under DRY & Antibacterial mode, do not restart the air conditioner until the unit is completely off.

E MANUAL OPERATION

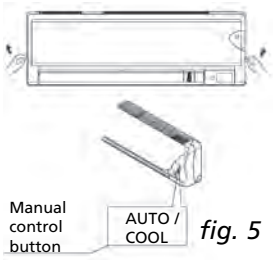


fig. 5

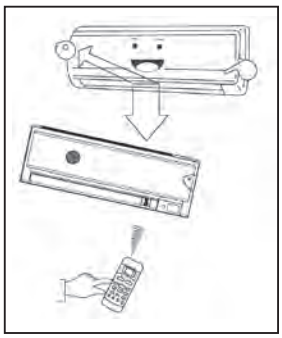
Manual operation can be used temporarily in case you can't find the remote controller or its batteries are exhausted.

1. Open and lift the front panel up to an angle until it remains fixed with a clicking sound.
2. Press the button and the Operation lamp lights up, the unit will operate in "AUTO" mode (the setting temperature is locked on 24 °C).
3. Press the button twice to turn off the air conditioner.

CAUTION

- Once you push the manual control button, the operation mode is shifted in an order as: AUTO--COOL--OFF.
- Push the manual control button to operate in forced COOL mode, this is used for testing purposes only.
- To restore the remote controller operation, use the remote controller directly.

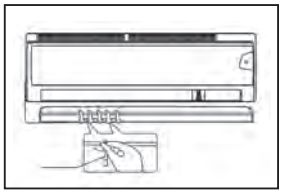
F ADJUSTING AIR FLOW DIRECTION



- Adjust the air flow direction properly otherwise, it might cause discomfort or cause uneven room temperatures.
- Adjust the horizontal louver using the remote control.
- Adjust the vertical louver manually.

Adjusting the Vertical Air Flow Direction (up - down)

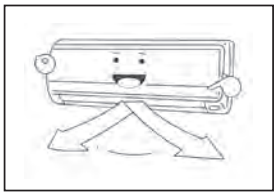
The air conditioner automatically adjusts the vertical air flow direction in accordance with the operating mode.



To set the vertical air flow direction

Perform this function while the unit is in operation. Press the SWING button on the remote control to move the louver, and press it again when the louver gets to the desired direction.

- Adjust the vertical air flow direction to the desired direction.
- When starting operations, the vertical air flow is automatically set in the direction written in micro-processor.



To set the horizontal air flow direction (left - right)

Adjust the vertical louver manually using the lever on the left or right side of the vertical louver arm (depending on model). Take care not to catch fingers on the fan, horizontal louver or to damage vertical louvers.

When the air conditioner is in operation and the horizontal louver is in a specific position, move the lever at left (or right, depending on model) end of the air outlet to the desired position.

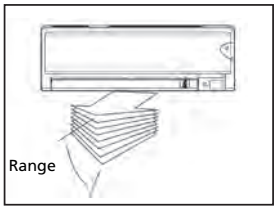


fig. 6

To automatically swing the air flow direction (up - down)

Perform this function while the air conditioner is in operation. Keep pressing the SWING button on the remote control for more than 2 seconds, the horizontal louvers swing automatically.

- To stop the function, press the SWING button once again.

CAUTION

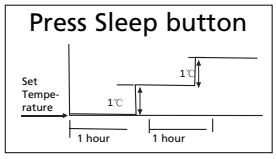
- The SWING buttons will be disabled when the air conditioner is not in operation.
- Do not operate the air conditioner for long periods with the air flow direction set downward in cooling or dry mode. Otherwise, condensation may occur on the surface of the horizontal louver causing moisture to drop on to the floor or furnishing.
- Do not move the horizontal louver manually. Always use the SWING button. If you move this louver manually, it may malfunction during operation. If the louver malfunctions, stop the air conditioner once and restart it.
- When the air conditioner is started immediately after it is stopped, the horizontal louver might not move for approximately 10 seconds.
- Open angle of the horizontal louver should not be set too small, as Cooling or Heating performance may be impaired due to too restricted air flow area.
- Do not operate unit with horizontal louver in closed position. When the air conditioner is connected to power (initial power), the horizontal louver may generate a sound for 10 seconds, this is a normal operation.
- When the air conditioner is connected to power (initial power), the horizontal louver may generate a sound for 10 seconds, this is a normal operation.

G OPTIMAL OPERATION

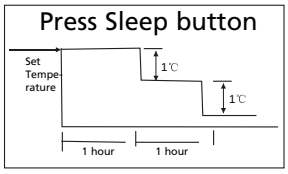
To achieve Optimal performance, please note the following:

- Adjust the air flow direction correctly so that it is not directed on people. Adjust the temperature to achieve the highest comfort level. Do not adjust the unit to excessive temperature levels.
- Close doors and windows on COOL or HEAT modes, otherwise performance may be reduced. Use Timer ON button on the remote control to select a time you want to start your air conditioner.
- Do not put any object near air inlet or air outlet, as the efficiency of the air conditioner may be reduced and the air conditioner may stop running.
- Clean the air filter periodically, otherwise cooling or heating performance may be reduced.
- Do not operate unit with horizontal louver in closed position.

H HOW THE AIR CONDITIONER WORKS



COOLING



HEATING

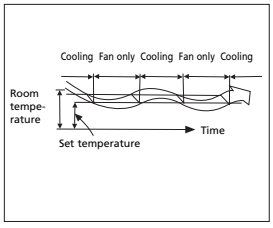


fig. 7 **DRYING**

AUTOMATIC OPERATION

- When you set the air conditioner in AUTO mode, it will automatically select cooling, heating(cooling/heating models only), or fan only operation depending on what temperature you have selected and the room temperature.
- The air conditioner will control room temperature automatically round the temperature point set by you.
- If the AUTO mode is uncomfortable, you can select desired conditions manually.

SLEEP OPERATION

- When you push SLEEP button during cooling, heating (cooling only type without), or AUTO operation, the air conditioner will automatically increase (cooling) or decrease (heating) 1 °C per hour. The set temperature will be steady 2 hours later. The fan speed will be automatically controlled. Note: The unit will be automatically turned off after 7 hours when on SLEEP operation.

DRYING OPERATION

- The dry mode will automatically select the drying operation based on the difference between the set temperature and the actual room temperature.
- The temperature is regulated while dehumidifying by repeating turning on and off of the cooling operation or fan only. The fan speed is LOW.

I OPERATION TIPS

The following events may occur during normal operation.:

1. Protection of the air conditioner.
   - Compressor protection
   - The compressor can't restart for 3 minutes after it stops.
   - Anti-cold air (Reverse cycle models only)

   The unit is designed not to blow cold air on HEAT mode, when the indoor heat exchanger is in one of the following three situations and the set temperature has not been reached.

   A) When heating has just starting.

   B) Defrosting.

C) Low temperature heating.

The indoor or outdoor fan stop running when defrosting (Reverse cycle models only).

• Defrosting (Reverse cycle models only)

Frost may be generated on the outdoor unit during heat cycle when outdoor temperature is low and humidity is high resulting in lower heating efficiency of the air conditioner.

• Under this condition, the air conditioner will stop heating operation and start defrosting automatically.

• The time to defrost may vary from 6 to 10 minutes according to the outdoor temperature and the amount of frost build up on the outdoor unit.

2. A white mist coming out from the indoor unit

• A white mist may generate due to a large temperature difference between air inlet and air outlet on COOL mode in an indoor environment that has a high relative humidity.

• A white mist may generate due to moisture generated from defrosting process when the air conditioner restarts in HEAT mode operation after defrosting.

3. Low noise of the air conditioner

• You may hear a low hissing sound when the compressor is running or has just stopped running. This sound is the sound of the refrigerant flowing or coming to a stop.

• You can also hear a low "squeak" sound when the compressor is running or has just stopped running. This is caused by heat expansion and cold contraction of the plastic parts in the unit when the temperature is changing.

• A noise may be heard due to louver restoring to its original position when power is first turned on.

4. Dust is blown out from the indoor unit.

This is a normal condition when the air conditioner has not been used for a long time or during first use of the unit.

5. A peculiar smell comes out from the indoor unit.

This is caused by the indoor unit giving off smells permeated from building material, from furniture, or smoke.

6. The air conditioner turns to FAN only mode from COOL or HEAT (reverse cycle models only) mode.

When indoor temperature reaches the temperature setting on air conditioner, the compressor will stop automatically, and the air conditioner turns to FAN only mode. The compressor will start again when the indoor temperature rises on COOL mode or falls on HEAT mode (reverse cycle models only) to the set point.

7. Dripping water may generate on the surface of the indoor unit when cooling in a high relatively humidity (relative humidity higher than 80%). Adjust the horizontal louver to the maximum air outlet position and select HIGH fan speed.

8. Heating mode (Reverse cycle models only)

The air conditioner draws in heat from the outdoor unit and releases it via the indoor unit during heating operation. When the outdoor temperature falls, heat drawn in by the air conditioner decreases accordingly. At the same time, heat loading of the air conditioner increases due to larger difference between indoor and outdoor temperature. If a comfortable temperature can't be achieved by the air conditioner, we suggest you use a supplementary heating device.

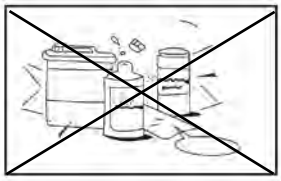
9. Auto-restart function

After the power cut-off, the air conditioners can automatically restore the previous function setting.

10. Lightning or a car wireless telephone operating nearby may cause the unit to malfunction.

Disconnect the unit with power and then re-connect the unit with power again. Push the ON/OFF button on the remote controller to restart operation.

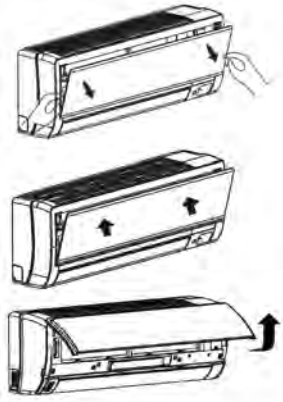
J CLEANING AND MAINTENANCE



WARNING
Before performing any maintenance, turn off the main power to the system.

Cleaning the indoor unit

CAUTION
Turn the system off before cleaning.



1. Use a dry cloth.
2. A cloth dampened with cold water may be used if the indoor unit is very dirty.
3. The front panel of the indoor unit can not be removed. Wipe it with a dry cloth after cleaned.

CAUTION!
- Do not use detergent or other chemical products during cleaning. Further, do not put these products near the indoor unit.
- Do not use benzene, thinner, polishing powder or other similar solvent to clean the unit.

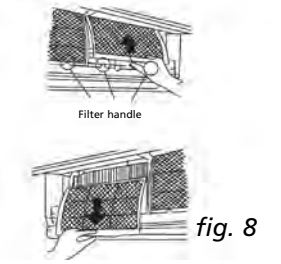


fig. 8

Cleaning the Air filter

The air filters behind the front panel should be checked and cleaned once every 2 weeks or more often if necessary. A clogged air filter will reduce cooling/heating efficiency.

1. Grasp both sides of the panel and pull it down, the panel opened upward to an angle of 15°. Push the panel upward and then lift it up.
2. Take hold of the handle of the air filter and lift it up slightly to take it out from the filter holder, then pull it downwards.
3. Remove the AIR FILTER from the indoor unit.
   - Clean the AIR FILTER once two weeks.
   - Clean the AIR FILTER with a vacuum cleaner or water, then dry it up in cool place.
4. Install the air filter back into position.
5. Insert the upper portion of air filter back into the unit taking care that the left and right edges line up correctly and place filter into position.

Cleaning the Rear Air Inlet Grille

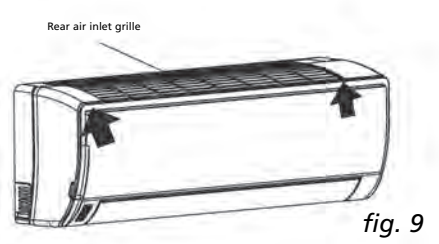
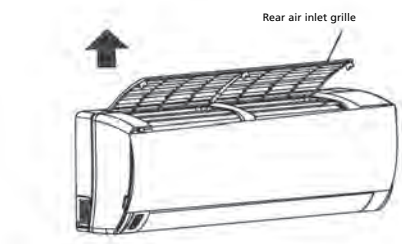


fig. 9



The rear air inlet grille should be checked and cleaned once every 2 weeks or more often if necessary. A clogged air inlet grille will reduce cooling/heating efficiency.

1. Push the right and left sides of the grille with your thumb and lift it upward, then take it out.
2. Clean it with water, then use a dry cloth to wipe it.
3. Insert the upper portion of grille back into the unit, taking care that the left and right edges line up correctly and place grille into position.

MAINTENANCE

Check if the air inlet or outlet is blocked after the air conditioner has not been used for a long time. If yes, clean them.

- **Perform the following operation if the air conditioner is not going to be used for a long time:**
  1. Clean the indoor unit and air filter.
  2. Select HEALTH mode, let the indoor fan run for a while to dry the inside of the unit.
  3. Disconnect the power supply and remove battery from the remote control.
  4. Check components of the outdoor unit periodically. Contact a local dealer or a customer service centre if the unit requires servicing.

NOTE!
Before you clean the air conditioner, be sure to switch the unit off and disconnect the power supply plug.

- **Check before operate the unit after a long time unused:**
  1. Check that the wiring is not damaged or disconnected.
  2. Check that the air filter is installed.
  3. Check if the air outlet or inlet is blocked.

K TROUBLE SHOOTING TIPS

Malfunctions and Solutions

Stop the air conditioner immediately if one of the following faults occur. Disconnect the power and contact the nearest customer service centre.

- Any one of E1, E2, E3, E4, E5 and E6 displays on the indoor unit.
- Fuse blows or circuit breaker trips frequently.
- Other objects or water penetrate the air conditioner.
- The remote controller won't work or works abnormally.
- Other abnormal situations.

Problem	Cause	Solution
Unit does not start	Power cut	Wait for power to be restored.
	Unit may have become unplugged.	Check that plug is securely in wall receptacle.
	Fuse may have blown.	Replace fuse / reset relay / reset circuitbraker
	Battery in Remote controller may have been exhausted.	Replace the battery.
	Distance remote controller to receiver on the indoor unit is more than 6 to 7 meters, or there are obstacles in between the remote controller and the receiver.	Shorten the distance. Remove possible obstacles. Aim the remote controller towards the receiver on the indoor unit.
	The time you have set with timer is incorrect.	Wait or cancel timer setting.
	Inappropriate temperature setting.	Set temperature correctly. For detailed method please refer to "operation with remote control" chapter E.
Unit not cooling or heating room very well while air flowing out from the air conditioner	Air filter is blocked.	Clean the air filter.
	Doors or windows in room are open.	Close the doors or windows.
	Air inlet or outlet of indoor or outdoor unit has been blocked.	Clear obstructions away first, then restart the unit.
	Compressor 3 minutes delay protection has been activated.	Wait.
	Defrosting of outdoor unit being performed.	
Fan speed cannot be changed	Air conditioner is in automode	Fan speed can only be changed in HEAT, COOL and FAN mode
	Air conditioner is in dry mode	
TEMP. Indicator is not shown	Air conditioner is in fan mode	Temperature cannot be set in FAN mode

If the trouble has not been corrected, please contact a local dealer or the nearest customer service centre. Be sure to inform them of the detailed malfunctions and unit model.

NOTE!
Do not attempt to repair the unit yourself. Always consult an authorised service provider.

L GUARANTEE CONDITIONS

The air conditioner is supplied with a 24-month guarantee, commencing on the date of purchase. All material and manufacturing defects will be repaired or replaced free of charge within this period. The following rules apply:

1. We expressly refuse all further damage claims, including claims for collateral damage.
2. Repairs to or replacement of components within the guarantee period will not result in an extension of the guarantee.
3. The guarantee is invalidated if any modifications have been made, non genuine parts are fitted or repairs are carried out by third parties.
4. Components subject to normal wear, such as the filter, are not covered by the guarantee.
5. The guarantee is valid only when you present the original, dated purchase invoice and if no modifications have been made.
6. The guarantee is invalid for damage caused by neglect or by actions that deviate from those in this instruction booklet.
7. Transportation costs and the risks involved during the transportation of the air conditioner or air conditioner components shall always be for the account of the purchaser.
8. Damage caused by not using suitable filters is not covered by the guarantee.
9. Refrigerant loss and/or leakage because of incompetent (dis)connecting the units is not covered by the guarantee conditions applicable to this product.

To prevent unnecessary expense, we recommend that you always first carefully consult the instructions for use. Take the air conditioner to your dealer for repairs if these instructions do not provide a solution.

M TECHNICAL DATA

Model		AAC-INV Design 14000-A PTC
Type air-conditioner		Wall mounted split
Cooling capacity *	W	nom. 3500 (min. 1170 - max. 4040)
EE Class*		A
EER*		3.22
Heating capacity *	W	nom. 4100 (min. 1200 - max. 4250)
Heating performance		A
COP*		3.62
Dehumidifying capacity ** *	L / 24h	28.8
Power consumption cooling	kW	1.09
Power consumption heating	kW	1.13
Power supply	V / Hz / Ph	230 / 50 / 1
Current (nom.) cooling / heating	A	4.9 / 5.2
Max. Current	A	12
Air flow **	m^3/h	420/520/700
Compressor type		Rotary
Fan speeds		3
Thermostatic range	°C	17 - 30
Operating range	°C	-15 - +43
Controls manual / mechanic / electronic		Electronic remote
Remote control Yes / No		Y
Air filter type(s)		Screen, Active carbon
Refrigerant type / charge	r / gr	R410A / 1230
Pressure suction / discharge	bar	8 / 26
Dimensions indoor unit (w x h x d)	mm	845x286x165
Dimensions outdoor unit (w x h x d)	mm	760x590x285
Net weight indoor unit	kg	10
Net weight outdoor unit	kg	39.5
Gross weight indoor unit	kg	13.5
Gross weight outdoor unit	kg	42.5
Sound pressure level indoor unit	dB(A)	29 - 42
Sound pressure level outdoor unit	dB(A)	54
Unit protection indoor	IP	IP20
Unit protection outdoor	IP	IP24
Fuse rating		T3.15A / 250V

* EN 14511-2004

** To be used as indication

*** Moisture removal at 32°C, 80% RH

Waste electrical products should not be disposed with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

Environmental information: This equipment contains fluorinated greenhouse gases covered by the Kyoto Protocol. It should only be serviced or dismantled by professional trained personnel.

This equipment contains R410A refrigerant in the amount as stated in the table above. Do not vent R410A into atmosphere: R410A, is a fluorinated greenhouse gas with a Global Warming Potential (GWP) = 1975

DISTRIBUTED IN EUROPE BY APPLIANCE A/S

A ÖSTERREICH
PVG Austria VertriebsgmbH
Salaberg 49
3350 HAAG
tel: +43 7434 44867
fax: +43 7434 44868
email: pvgaustria@zibro.com

B BELGIË
PVG Belgium NV/SA
Industrielaan 55
2900 SCHOTEN
tel: +32 3 326 39 39
fax: +32 3 326 26 39
email: pvgbelgium@zibro.com

CH SCHWEIZ
PVG Schweiz AG
Salinenstrasse 63
4133 PRATTELN
tel: +41 61 337 26 51
fax: +41 61 337 26 78
email: pvgint@zibro.com

D DEUTSCHLAND
PVG Deutschland GmbH
Siemensstrasse 31
47533 KLEVE
tel: 0800 - 9427646
fax: +31 (0)412 648 385
email: pvgdeutschland@zibro.com

DK DANMARK
Appliance A/S
Blovstroed Teglvaerksvej 3
DK-3450 ALLERØED
tel: +45 70 205 701
fax: +45 70 208 701
email: appliance@appliance-group.com

E ESPAÑA
PVG España S.A.
Pol. Ind. San José de Valderas II
Comunidad "La Alameda"
C/ Aurora Boreal, 19
28918 LEGANÉS (Madrid)
tel: +34 91 611 31 13
fax: +34 91 612 73 04
email: pvgspain@zibro.com

F FRANCE
PVG France SARL
4, Rue Jean Sibélius
B.P. 185
76410 SOTTEVILLE SOUS LE VAL
tel: +33 2 32 96 07 47
fax: +33 0 820 34 64 84
email: pvgfrance@zibro.com

FIN SUOMI
Appliance Finland Oy
Piispantilankuja 6C
02240 ESPOO
tel: +358 9 4390 030
fax: +358 9 4390 0320
email: appliance@appliance-group.com

GB UNITED KINGDOM
Scott Brothers Ltd.
The Old Barn, Holly House Estate
Cranage, Middlewich, CW10 9LT UK
tel.: +44 1606 837787
fax: +44 1606 837757
email: sales@scottmail.co.uk

I ITALIA
PVG Italy SRL
Via Niccolò Copernico 5
50051 CASTELFIORENTINO (FI)
tel: +39 571 628 500
fax: +39 571 628 504
email: pvgitaly@zibro.com

N NORGE
Appliance Norge AS
Vogellunden 31
1394 NESBRU
tel: +47 667 76 200
fax: +47 667 76 201
email: appliance@appliance-group.com

NL NEDERLAND
PVG International B.V.
P.O. Box 96
5340 AB OSS
tel: +31 412 694 694
fax: +31 412 622 893
email: pvgnl@zibro.com

P PORTUGAL
Gardena, Lda
Recta da Granja do Marquês
ALGUEIRÃO
2725-596 MEM MARTINS
tel: + 35 21 92 28 530
fax: + 35 21 92 28 536
email: pvgint@zibro.com

PL POLSKA
PVG Polska Sp. z. o. o.
ul. Kościelna 110
26-800 Białobrzegi
tel: +48 48 613 00 70
fax: +48 48 613 00 70
email: pvgpoland@zibro.com

S SVERIGE
Appliance Sweden AB
Sjögatan 6
25225 HELSINGBORG
tel: +46 42 287 830
fax: +46 42 145 890
email: appliance@appliance-group.com

SLO SLOVENIJA
Monteko d.o.o.
Neubergerjeva 4
1000 Ljubljana
tel: +386 (0)1 437 1273
fax: +386 (0)1 437 1273
email: info@zibro.si

TR TURKEY
PVG Isıtma Klima Soğutma Ltd.Şti.
Tepekule is merkezi
Anadolu Cad. No: 40 K:3 D:306
35010 BAYRAKLI/IZMIR
tel: + 90 232 461 51 01
fax: + 90 232 461 51 85
email: pvgturkey@zibro.com

PVG Traffic avg@080307 man_AAC-INV_Design_14000

CE